

WHAT IS CLAIMED IS:

1. An image recording system, comprising:

a multiplexer for selectively outputting a plurality of image signals applied from a plurality of cameras; and

5 a recording apparatus for recording the image signals output from said multiplexer in a recording medium, wherein said multiplexer includes a selector for selecting each of said plurality of cameras in a time-division manner, an applier for applying at an arbitrary timing a recording request signal to the image signal output from a camera selected by said selector, and said recording apparatus includes a recorder for recording, when the
10 recording request signal is applied to the image signal output from said multiplexer, the image signal in said recording medium.

2. An image recording system according to claim 1, wherein said multiplexer further includes an accepter for accepting setting of a recording rate with respect to each of said plurality of cameras, and the arbitrary timing is a timing according to the recording
15 rate setting accepted by said accepter.

3. An image recording system according to claim 1, wherein said multiplexer further includes a recording mode information generator for generating recording mode information indicative of any one of pre-alarm recording and post-alarm recording depending upon an occurring state of an alarm, and the recording request signal includes
20 the recording mode information generated by said recording mode information generator.

4. An image recording system according to claim 3, wherein said recording medium has a pre-alarm area and a post-alarm area, and said recorder includes a detector for detecting the recording mode information from the recording request signal, a pre-alarm recorder for recording the image signal in said pre-alarm area when the
25 recording mode information detected by said detector indicates the pre-alarm recording,

and a post-alarm recorder for recording the image signal in said post-alarm area when the recording mode information detected by said detector indicates the post-alarm recording.

5. An image recording system according to claim 1, wherein said selector selects by priority a specific camera when performing post-alarm recording.

5 6. An image recording reproducing apparatus, comprising:

an extractor for extracting an image signal of an arbitrary screen from image signals of a plurality of successive screens;

a first recorder for recording the image signal extracted by said extractor;

10 a detector for detecting a time difference value between a previous extraction timing by said extractor and a current extraction timing by said extractor;

a second recorder for recording control information including the time difference value detected by said detector; and

a reproducer for reproducing the image signal recorded by said first recorder at a timing based on the control information recorded by said second recorder.

15 7. An image recording reproducing apparatus according to claim 6, further comprising a selector for selecting each of a plurality of cameras in a time-division manner, wherein the image signals of the plurality of the successive screens are image signals output from a camera selected by said selector.

20 8. An image recording reproducing apparatus according to claim 6, wherein said second recorder relates the control information including the time difference value to the image signal currently extracted by said extractor.

9. An image recording reproducing apparatus according to claim 8, further comprising:

25 a first difference value detector for detecting a first time difference value included in the control information related to an image signal of a next screen when reproducing an

image signal of a current screen; and

a second difference value detector for detecting, when reproducing the image signal of the current screen, a second time difference value included in the control information related to the image signal; wherein said reproducer includes a first normal speed reproducer for reproducing the image signal of the next screen at a time that a time period corresponding to the first time difference value has elapsed when performing normal speed reproduction in a forward direction, and a second normal speed reproducer for reproducing the image signal of the previous screen at a time that a time period corresponding to the second time difference value has elapsed when performing normal speed reproduction in a reverse direction.